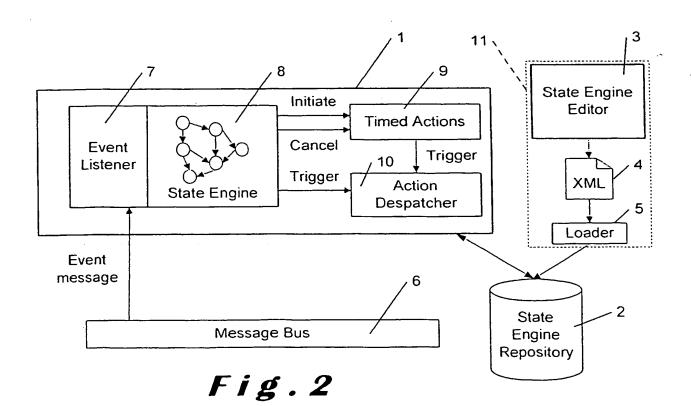
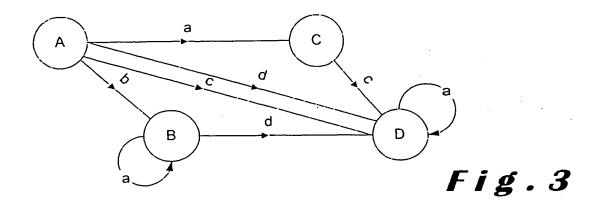


Fig. 1





Current State / Incoming Event	State A	State B	State C	State D
Event a	New Sate: State C Action 1 Action 2 Timed Action 1	Action 7 Timed Action 2		Action 1
Event b	New State: State B Action 3 Timed Action 2 Timed Action 3			
Event c	New State: State D Action 4 Action 5 Action 6		New State: State D Action 4 Action 5	
Event d	New State: State D Action 5	New State: State D Action 3 Action 5		

Fig.4

Element	Description
(BPSE>	Global element for the business
	process state engine repository
<objecttypes></objecttypes>	Definition of object types
<objecttype xid="string"></objecttype>	Unique Ref ID of the object type
	(system generated)
<name>string</name>	Name of the object type
<pre><description>string</description></pre>	Description of the object type
<objecttype xid="string"></objecttype>	
<diagrams></diagrams>	Definition of state diagrams
<diagram xid="string"></diagram>	Unique Ref ID of the diagram (system
	generated)
<name>string</name>	Name of the diagram
<pre><description>string</description></pre>	Description of the diagram
<objecttyperef xid="string"></objecttyperef>	Ref of the object type on which the
	diagram applies
<diagram xid="string"></diagram>	
<states></states>	
<state xid="string"></state>	Unique Ref ID of the state (system
	generated)
<name>string</name>	Name of the state
<pre><description>string</description></pre>	>Description of the state
<pre><diagramref xid="string"></diagramref></pre>	Ref to the diagram to which the
	state belongs
<state xid="string"></state>	
<events></events>	
<event xid="string"></event>	Unique Ref ID of the event (system
	generated)
<name>string</name>	Name of the event
<pre><description>string</description></pre>	Description of the event
<objecttyperef xid="string"></objecttyperef>	Object type on which event is applicable
<event xid="string"></event>	
1/2/6/1637	<u>, I </u>

Fig.5a

(Actions>	
<pre><action xid="string"></action></pre>	Unique Ref ID of the action
Checion and octavity	(system generated)
<name>string</name>	Name of the action
<pre><description>string</description></pre>	Description of the action
<objecttyperef xid="string"></objecttyperef>	Object types on which action is
(05)0001, power with the committee	applicable (optional)
<action xid="string"></action>	
C/ACCIONS	
·mi dharians	
<timedactions></timedactions>	Unique Ref ID of the timed action
<timedaction xid="string"></timedaction>	(system generated)
<name>string</name>	Name of the timedaction
	Description of the timed action
<pre></pre> <pre><objecttyperef xid="string"></objecttyperef></pre>	Object types on which timed action
CODJECCIAbevel xid-scrinds	is applicable (optional)
<timeout>string</timeout>	Time when action(s) will fire
	(dd hh:mm)
<actions></actions>	Action(s) that will fire when
	timeout expires
<action xid="string"></action>	Ref to the action to be fired
<timedaction xid="string"></timedaction>	
(7)11110001001010	
<transitions></transitions>	
<pre><transition xid="string"></transition></pre>	
<pre><triggeringevent xid="string"></triggeringevent></pre>	Ref to the event that triggers the
cirrdderriidenene xid-scriiid />	transition
<diagram xid="string"></diagram>	Ref'to the state digram to which t
	transition belongs
<pre><source xid="string"/></pre>	Ref to the source state of the
	transition
<target xid="string"></target>	Ref to the target state of the
	transition
<actions></actions>	Ref to the actions to be taken who transition occurs
(Dation widestries /	CTANSTCION OCCUTS
<action xid="string"></action>	
<timedactions></timedactions>	Ref to timed actions to be schedu
<timedaction xid="string"></timedaction>	
<timedaction xid="string"></timedaction>	
<timedaction xid="string"> </timedaction>	

Fig.5b

Element	
<eventmessage></eventmessage>	Global element for the event
	message
<header></header>	Event header information
<origin>string</origin>	Origin (system that generated the message on the bus)
<messagedatetime>string<td>When the message was sent (DD-MM-YYY HH:MM:SS)</td></messagedatetime>	When the message was sent (DD-MM-YYY HH:MM:SS)
<eventtype>string</eventtype>	What type of event
<eventdatetime>string</eventdatetime>	When the orginal event was created (DD-MM-YYY HH:MM:SS)
<location>string</location>	Where the event was created
<user>string</user>	Who created the event
<reason>string</reason>	Why the event was created
<method>string</method>	How the event was created
<objecttype>string</objecttype>	Object type on which the event applies
<objectid>string</objectid>	Object ID on which the event applied
<object></object>	Specific Object data associated with the event - format specific to the object type
<objectdatal><objectdatal></objectdatal></objectdatal>	Object specific data
<objectdatan><objectdatan></objectdatan></objectdatan>	Object specific data

Fig.5c

Element	Description
(ActionMessage>	Global element for the action
	message
<header></header>	Action header information
<origin>string</origin>	Origin (system that generated
	the message on the bus)
<pre><messagedatetime>string</messagedatetime></pre>	>When the message was sent
	(DD-MM-YYY HH:MM:SS)
<actiontype>string</actiontype>	What type of action
<reason>string</reason>	Why the action was triggered
<objecttype>string</objecttype>	Object type on which the action
	applies
<objectid>string</objectid>	Object ID on which the action
	applies
<object></object>	Specific Object data associated
	with the event - format specific
	to the object type
<objectdatal><objectdatal></objectdatal></objectdatal>	Object specific data
<objectdatan><objectdatan></objectdatan></objectdatan>	Object specific data

Fig.5d

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bject types	Entities>Object to	ypes	
vents		Object Type Editor	
ctions mes Actions tate Diagrams	Name Description		
ates	New	<u> Delete</u>	
	Name	Description	
	Package Order CSTask	Package Shipping Order Customer Service Task	

Fig.6

bject types	Entities>Events		
<u>vents</u> ctions		Event Editor	
mes Actions ate Diagrams ates	Name Description Object type		
	New (<u>a.</u> ⊎pdatë	Delete A
	Name	Description	Object type
·	Created CarrierIntransit CarrierPOD CPScanIn DeliveredUser	Package created Carrier in transit Carrier proof of delivery Scan in by CP Delivered to User	Package Package Package Package Package

Fig.7

Object types	Entities>Actions			• • •
Events Actions		Action Editor		
Times Actions State Diagrams States	Name Description Object type		· · ·	,
	New New	Update [+) Delete	
	Name	Description	Object type	
	LogEvent CarrierCollect NotifyUser	Log event Notify Carrier to collect Send message to recipient	Package Package	

Fig.8

Object types	Entities>TimedActions	¥45 ()
<u>Events</u> Actions	Timed Action Editor	· · · · · · · · · · · · · · · · · · ·
Fimes Actions State Diagrams States	Name Description Object type Timer (dd hh:mm) Generic Actions	A
	Object Specific Actions	
	New Update	Delete
	Name Description	Object type
	DelUncollected DeliveryLateDelivery package uncollectedDeliveryLate RetUncollectedDelivery delayed Return not collected by carrier	Package Package

Fig. 9

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Object types	Entities>StateDi	agrams	
Events		State Diagram Edito	r
Actions Times Actions State Diagrams States	Name Description Object type		······································
	New	Updatë 📆	Delete
	Name	Description	Object type
	PkgDelivery PkgReturn PickProcess	Package Delivery flow Package return flow Package picking flow	Package Package Order

Fig. 10

Object types	Entities>States	· · · · · · · · · · · · · · · · · · ·	
<u>Events</u> Actions		State Editor	
Times Actions State Diagrams States	Name Description		
naics	State Diagram		
	New	© Update	Delete:
	Name	Description	State Diagram
	Created InTransit DeliveredCP	Package created Package in transit Package delivered in CP	PkgDelivery PkgDelivery PkgDelivery
	<u>DeliveredUser</u>	Package delivered to user	PkgDelivery

Fig. 11

Entities Diag	Repository		
PkgDelivery	Diagrams>PkgDelivery>	Created	
PkqReturn PickProcess		Transition Editor	
PickFiocess	Triggering Event		
	Target State		
	Generic Actions		
L			
Source State			
None	Object Specific		
Created InTransit	Actions	<u>.</u>	
<u>DeliveredCP</u>	Generic		<u> </u>
<u>DeliveredUser</u>	Timed Actions		₹
	Object Specific		
	Timed Actions		
	New S	Update.	Delete
•	Triggering Event	Target State	
	Created	Created	
	CarrierIntransit CarrierPOD	InTransit DeliveredCP	
	CPScanIn	DeliveredCP	
	DeliveredUser	DeliveredUser	
	j		*

Fig. 12

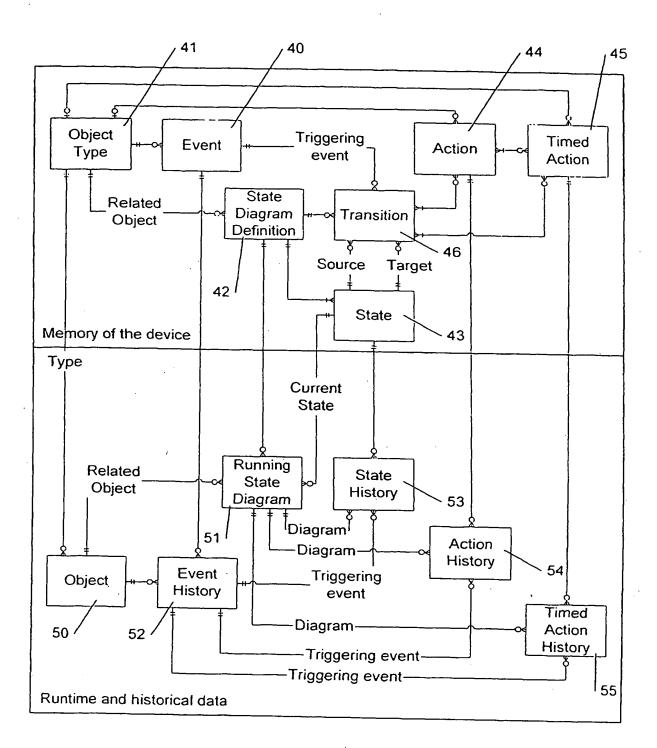


Fig. 13

